

**Table S4:** Antibiotic / Heavy Metal resistance genes in each input *L. monocytogenes* strain

Function	DPC6895 locus tag	FSL J2-064 locus tag
	Prefix: TZ05_	Prefix: M637_
<b>Multi-drug Resistance</b>	0003, 0116c, 0117c, 0615c, 0617, 0681, 0752, 0836, 0984c, 0993, 1607, 1639, 1640, 2072, <b>2661c</b> , 2741, 2744, 2764, 2771, 2797	01905, 01920, 02025, 02060, 02190, 02590, 03140, 03145, 05700, 05710, 06035, 06395, 06830, 07585, 07630, 11065, 11230, 11235, 13485
<b>Benzalkonium Chloride resistance <i>mdrL</i></b>	1398	10025
<b>Benzalkonium Chloride resistance <i>lde</i></b>	2760c	2005
<b>Bacteriocin Transport &amp; Multi Antimicrobial extrusion</b>	1842, 1898c, 2086c	12340, 12620, 13560
<b>Tellurite Resistance</b>	1962	12945
<b>Camphor Resistance</b>	2080c, 2081c	13525, 13530
<b>Bacitracin Transport</b>	0031c, 1626, 1744c, 2114	02730, 11160, 11845, 13700
<b>QAC Resistance</b>	0852, 0853	06910, 06915
<b><math>\beta</math>-lactamase &amp; Metallo-beta-lactamase proteins</b>	0298, 0946, 1423c, 1567c, 1604c, 1787, 2157c, 2167c	04090, 07400, 10150, 10870, 11050, 12070, 13940, 13990
<b>Quinolone Resistance</b>	1240, 2836	02380, 09215
<b>Fosfomycin Resistance</b>	1701c	11630
<b>Vancomycin Resistance</b>	1643, 1695	11260, 11600
<b>Aminoglycoside N3-acetyltransferase</b>	1707	11660
<b>Lincomycin Resistance</b>	0528, 2596c	05245, 01145
<b>Tetracycline Resistance</b>	0838c	6840
<b>Heavy Metal Transport</b>	1848c, 2061, 1435c	13430, 12370, 10210
<b>Aluminium Resistance</b>	1287	9465
<b>Lead / Cadmium / Zinc Resistance</b>	<b>0420c, 0421</b> , 0652, 1849c, 2233, 2426c, 2582c	05890, 12375, 14315, 00290, 01080